OFFICIAL PROPOSALS

Bids: Mar. 19.

Power Plant Machinery and Electric Line Material

Jacksonville, Fla.

Sealed proposals will be received by the City Commission of the City of Jacksonville, Florida, until 3:00 o'clock p.m., Monday, March 19th, 1923, for the following equipment, in accordance with plans and specifications on file in the office of the City Commission and in the office of the Scofield Engineering Company of Philadelphia, Pa., Consulting Engineers.

1. 1—12,000 K.W. Turbo Generator.
2. Surface Condensing Equipment.
3. Improvements for surface condensing equipment.
4. Admiralty Condenser Tubes.
5. Switchboard additions and improvements, for Generating and Sub-stations.
6. Constant Current Transformers.
7. Power Transformers.
8. Reactors and Transformer rewinding material.
9. Improvements for boilers and superheaters.
10. Oil burners and furnace material.
11. Force draft fans.
12. Centrifugal boiler feed pump.
13. Centrifugal sump pumps.
14. Synchronous motors.
15. 2 storage batteries.
16. Machine shop equipment.
17. Lead covered cable and jointing material.
18. Copper wire.

Bids shall state the time in which the bidder guarantees to make shipment and complete the work as specified to the satisfaction and acceptance of the Consulting Engineers. Bids shall be subject to acceptance within two weeks. Form of contract is on file in the offices of the City Commissibon and Scofield Engineering Company, Consulting Engineers, Philadelphia, Pa., and further information may be obtained from said engineers or by applying to Frank H. Owen, Commissioner Public Utilities, City Hall, Jacksonville, Florida. Each bid must be accompanied by a certified check on a Jacksonville bank or on some National bank for five per cent (5%) of the amount bid as a guarantee that the bidder will, if awarded the contract, promptly enter into agreement for the work and furnish a surety bond acceptance to the Commission to an amount equal to twenty-five (25%) per cent of the contract price. Each bid should be addressed to the City Commission, be marked as a bid for Plant Machinery and Electric Line Material and be delivered through mail or otherwise at the office of the Secretary, Room 13, City Hall. The Commission reserves the right to reject any or all bids, to waive informalities or to accept any bid in whole or in part.

March 1, 1923.

W. A. EVANS,
Chairman.

Attest:
E. P. OWEN, JR.,
Secretary.

Bids: Mar. 13.

Street Paving

South Bend, Ind.

Notice is hereby given that sealed proposals will be received by the Department of Public Works of the City of South Bend, Ind., up to 10:00 o'clock a.m., of the 13th day of March, 1923, for the execution of the following work:

Pavement on the following streets.

Leer Street	4,505.0	sq.yds.
Fassnacht Ave.	6,949.0	" "
Harper Ct.	674.0	" "
Marine St.	2,217.0	" "
Golden Avenue	1,793.0	" "
Harrison Avenue	6,615.0	" "
Poland St.	1,542.0	" "
Carroll St.	970.0	" "

Complete drawings and specifications of said work are now on file in the office of the Department of Public Works in the City Hall, of South Bend, Indiana. The Board reserves the right to reject any or all bids.

BOARD OF PUBLIC WORKS.
L. B. SLAUGHTER.
L. P. HARDY.
ALBERT F. HONER.
VERONICA C. SWEENEY,
Clerk of Board.

OFFICIAL PROPOSALS

Bids: March 20.

System of Water Mains

Mt. Greenwood, Cook Co., Ill.

Sealed Proposals, endorsed "Proposals for Water Main," will be received by the Board of Local Improvements of the Village of Mt. Greenwood, Illinois, in the Village Hall in said Village, until eight o'clock p.m., March 20, 1923, for furnishing all labor, tools, machinery, equipment and materials and constructing and completing a system of cast iron water mains in various streets in said Village, as designated by and in accordance with an Ordinance duly passed, and in accordance with a special assessment proceeding in the County Court of Cook County, designated as Special Assessment Number Two, of the Village of Mt. Greenwood, Illinois, and in accordance with the following estimated quantities:

4,044.78 Lin.Ft. of (12") internal diameter cast iron water main, average depth (5½').

33,198.49 Lin.Ft. of (6") internal diameter cast iron water main, average depth (5½').

(12) 12" standard iron, parallel seat, double gate valves, with brick valve chambers and cast iron covers.

(57) 6" standard iron, parallel seat, double gate valves, with brick valve chambers and cast iron covers.

(99) 6" standard fire hydrants, with iron body, fitted with (2), (2½") hose and (1) steamer connection, with (5") valve opening and a (7") inside diameter working barrel and fitted with auxiliary valves.

(11) 12" x 12" x 6" x 6" cast iron cross connections, 512 lbs. each.

(24) 6" x 6" x 6" x 6" cast iron cross connections, 257 lbs. each.

(3) 12" x 12" x 6" cast iron tee connections, 458 lbs. each.

(104) 6" x 6" x 6" cast iron tee connections, 200 lbs. each.

(8) 6" cast iron, ⅛ 45 degree bends, 105 lbs. each.

All proposals must be submitted on the Proposal Blanks furnished by the Board of Local Improvements of said Village; and shall be accompanied by cash or certified check made payable to M. L. Cusack, President of the Board of Local Improvements, in an amount equal to ten (10%) per cent of the total proposal.

A construction bond, satisfactory to the Board of Local Improvements, in an amount equal to one-third of the total proposal will be required of the successful bidder.

Payment for the above work will be made by the Board of Local Improvements of said Village, in Special Assessment Bonds, issued against Special Assessment Number Two of the Village of Mt. Greenwood, Illinois, bearing interest at the rate of six (6) per cent per annum, with a maximum maturity date of ten (10) years.

Plans, specifications, and proposal blanks may be obtained at the office of the Village Clerk, of said Village; and from Allen L. Fox, engineer for said Board of Local Improvements, at his office in the Commercial Bank Building, Chicago Heights, Illinois; and in the office of F. K. Root, 14th Floor Conway Building, Chicago, Illinois.

The Board of Local Improvements reserves the right to reject any or all Proposals.

BOARD OF LOCAL IMPROVEMENTS.
M. L. CUSACK,
President.
A. JOHNSON,
WILLIAM BURGOYNE,
Clerk.

Bids: Mar. 14.

Tank Trailers

Hackensack, N. J.

Sealed proposals will be received by the Road Committee of the Board of Chosen Freeholders of the County of Bergen at the office of the Clerk of the Board in the Court House, Hackensack, N. J., on March 14th, 1923, at 2 p.m., for the furnishing of two (2) one thousand (1,000) gallons capacity tank trailers for transporting asphaltum.

For specifications and other detailed information, communicate with the Supervisor of Roads, Court House, Hackensack, N. J.

JOHN A. W. DONALDSON,
Chairman of Road Committee.

OFFICIAL PROPOSALS

Bids: Mar. 27.

Barge Canal Terminal

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, March 27th, 1923, at which place and hour they will be publicly opened and read, for the construction of Barge Canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and amendatory laws, as follows:

TERMINAL CONTRACT NO. 237.

For constructing a terminal freighthouse at Oswego. Contract plans, sheets 1 to 9, inclusive.

Plans may be seen and detailed specifications, engineer's estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division, at Rochester, N. Y.; at the offices of the Superintendent of Public Works, Erie Basin Terminal, Buffalo, N. Y., and Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of fifteen cents (15c.) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y.; and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

EDWARD S. WALSH.
Superintendent of Public Work
February 21st, 1923.

OFFICIAL PROPOSALS

Bids: Mar. 30.

Moose Temple Building

Clearfield, Penna.

Sealed proposals for furnishing material and construction of the Moose Temple Building for the Loyal Order of Moose, Clearfield, Penna., as per plans and specifications as prepared by W. V. Justus of Punxsutawney, Pa., will be received by the Board of Trustees of Clearfield, Penna., at their present lodge room on 315 Market Street, until six p.m., Eastern time, March 30, 1923.

Each proposal must be accompanied with a certified check of five per cent of their bid, a bond of one hundred per cent of the contract price will be required.

This building is 70 x 100, three stories and basement, fireproof construction and steel skeleton frame.

Copies of plans and specifications can be obtained at the office of the Architect at 329 East Mahoning Street, Punxsutawney, Penna., upon deposit of the sum of twenty dollars with the Architect, ten dollars of which will be refunded upon the return of all prints in good condition, the remainder to be retained to cover printing, mailing, etc., etc.

The right is reserved to reject any and all bids.

Plumbing, Heating and Electrical Wiring are not included in the General Contract; to be advertised later.

LOYAL ORDER OF MOOSE NO. 97.
(Signed) D. D. GUPPY,
D. B. McCARTY,
Trustees.

Bids: Mar. 13.

Reinforced Concrete Bridge

Media, Pa.

Sealed proposals will be received at the Controller's Office, Media, Pa., on Tuesday, March 13th, 1923, until 11 a.m., for furnishing all equipment, tools, machinery, and labor necessary to properly construct a two span reinforced concerte bridge, known as the Plush Mill Bridge No. 107, situate on Baltimore Pike over Crum Creek, between Springffield and Nether Providence Townships. The bridge is to be of the open spandrel type, two 120 ft. clear spans, 346 feet over all, with 30 ft. 6 in. roadway and two 5 ft. sidewalks.

Bids from other than those engaged or established in business for which proposals are asked will not be entertained and no bids will be entertained unless made out on printed blank forms furnished by the County Commissioners.

Each bid must be accompanied by a Certified Check of Fifteen Thousand ($15,000.00) dollars drawn to the order of the Commissioners of Delaware County.

Plans and specifications can be had by applying at the office of the County Controller, Media, Pa. All bidders desiring a set of plans and specifications shall deposit Twenty-five ($25.00) dollars with the County Controller, which amount will be refunded if palns and specifications are returned within one (1) week after the opening of bids.

No plans or specifications given out after Saturday, March 10th, 1923.

The Commissioners reserve the right to reject any or all bids.

GEORGE T. WADAS,
County Controller.

Bids: March 22.

Steel Framing

New Orleans, La.

Sealed proposals will be received by the Board of Commissioners of the Port of New Orleans at their offices, Suite 200, New Court Building, until 3:00 p.m., March 22, 1923, and then publicly opened for furnishing, erecting and painting of the steel framing required for the wharf structure at Poland Street Landing.

A deposit of $2,000 in cash or certified check is required with each proposal.

A bond to the amount of 50 per cent of the sum bid is required with notarial contract.

Specifications and proposal forms are on file in the office of the Supervisor of Purchases, at No. 1 Canal Street, New Orleans, Louisiana. Complete sets will be furnished to prospective bidders on deposit of $5, which will be refunded to depositors who submit proposals, or return sets in good condition.

The right is reserved to reject any or all bids and to waive informalities.

J. H. WALSH,
General Manager.

Bids: April 26.

Water Tube Boilers

New Orleans, La.

Sealed proposals will be received by the Sewerage and Water Board of New Orleans up to 12 o'clock noon, Thursday, April 26th, 1923, for furnishing 1,500-1,800 hp. Water Tube Boilers.

Specifications and blank forms of proposals may be obtained at Room 303, No. 526 Carondelet Street, New Orleans.

The right is reserved to reject any or all bids.

GEO. G. EARL,
General Superintendent.

A. G. MOFFAT,
Secretary.

A Bonding Company's Suggestion to Official Proposal Advertisers

"A large part of our contract bond business is submitted to us by wire, and I am a constant reader of the Official Proposals in order to find out the size and nature of the work that is referred to in the bond application. Very frequently I am unable to get any clear idea of what the advertisers are asking bids on, and of course the prospective bidder or contractor is also at a loss to know what kind of a job is being advertised.

"Traveling expenses are heavy at the present time, and contractors pay out considerable sums during the course of a year in investigating prospective contracts. This of course is a large charge that the owners eventually pay, and anything that will reduce the general overhead of contract work will eventually be to the advantage of the owner.

"One way to reduce this overhead is to word the advertisement so that the contractor sitting in his office will know whether or not he should investigate and prepare a bid on the proposed work."

Bids: March 20.

Pipe Sewers

South Bend, Ind.

Notice is hereby given that sealed proposals will be recevied by the Department of Public Works of the City of South Bend, Ind., up to 10:00 o'clock a.m., of the 20th day of March, 1923, for the execution of the following work:

Pipe sewers on the following streets:

William Street	1,200 lin.ft.
Brookfield Street	1,460 lin.ft.
Calvert Street	1,155 lin.ft.
Kinyon Street, Keller and Medora Streets	1,713 lin.ft.
Victoria Street	1,400 lin.ft.
Indiana Avenue and Clyde Street	900 lin.ft.
Fairview Avenue	1,422 lin.ft.
Lafayette Street and Parkovash.	991 lin.ft.
Oak Part Court	600 lin.ft.
Marietta Street	233 lin.ft.

Complete drawing and specifications of said work are now on file in the office of the Department of Public Works in the City Hall, of South Bend, Indiana. The Board reserves the right to reject any or all bids.

L. B. SLAUGHTER,
L. P. HARDY,
ALBERT F. HONER,
Board of Public Works.

VERONICA C. SWEENEY,
Clerk of the Board.

Date of publication: March 8 and 15, 1923.

Bids: Mar. 20.

Narrows Siphon No. 2 Contract 198

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 a.m., Eastern Standard time, on Tuesday, March 20, 1923, for Contract 198, for the construction of Narrows Siphon No. 2, a 42-inch, flexible-jointed, cast-iron submarine pipe-line about 8,800 feet long, with shore connections of 42-inch and 48-inch bell-and-spigot cast-iron pipes about 560 feet in length. This siphon is a portion of the Catskill aqueduct and will extend across the Narrows of New York harbor from 86th Street and Shore Road, Bay Ridge, Brooklyn, to Vanderbilt Avenue and Bay Street, Clifton, Staten Island.

The work consists principally of furnishing approximately 4,650 tons of submarine pipes, dredging a trench in which the pipe-line will be laid across the Narrows, including the shore ends, and refilling over the pipe-line. The land work is to include furnishing and laying about 330 tons of cast-iron pipe and special castings of various sizes, furnishing and setting two large meters, building chambers and manholes and doing other incidental work.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President.
JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER, Secretary.

Bids: March 26.

Oregon Road Bridge

Bowling Green, Ohio.

Sealed proposals will be received by the Board of County Commissioners of Wood County, Ohio, at the office of the County Auditor, Bowling Green, Ohio, until 1:00 o'clock p.m., Monday, March 26, 1923, and opened immediately thereafter, for the furnishing of all materials, tools, machinery, appliances and labor required for the construction of two abutments and one pier, providing the drainage, and grading 22,000 cu.yd. of approaches, also the erecting of two 152-ft. bridge spans with 20-ft. roadway, at the following location, viz.:

Oregon Road Bridge over the crossing of the Toledo and Cincinnati Railroad Company's (B. & O.) tracks in River Tract 85, Ross Township, Wood County, Ohio.

Said improvement to be made in accordance with plans, specifications and estimates now on file in the office of the County Auditor of Wood County, Ohio, and open to inspection during business hours of each day.

Each bid for the improvement must be accompanied by a certified check upon some solvent bank of Wood County, surety bond or cash in the sum equal to five (5) per cent of the price bid, as a guaranty that if the work is awarded to the bidder he will within seven days from the date of such award, enter into proper and acceptable contract and bond conditioned for the faithful performance of his work, otherwise said amount accompanying his bid will be forfeited to Wood County as liquidated damages.

Bids for the above described work shall be made on blanks to be furnished by the County Surveyor of Wood County.

The Board of County Commissioners of Wood County reserves the right to reject any or all bids.

By order of the Board of Commissioners of Wood County, Ohio.

E. E. CORIELL,
County Auditor.

Bowling Green, Ohio, Feb. 21, 1923.

Compensation Insurance

Some contractors "give" this insurance to a friend, either personal or political. How many, we wonder, "engage" the services of a specialist to advise them right in the intricate problems that arise in this business.

Alfred S. Hamilton
110 William St., New York

OFFICIAL PROPOSALS

Bids: March 22.

Sewage Disposal Works

Mamaroneck, N. Y.

Sealed proposals for the completion of Sewage Disposal Works will be received by the Clerk of the Village of Mamaroneck until 8 o'clock p.m., on Thursday, the 22nd day of March, 1923.

The work includes about 2,600 cubic yards of earth excavation; 1,630 cubic yards of concrete masonry; the completion of the machinery building; the furnishing and erection of compressors, cast-iron and wrought-iron piping, valves, diffuser blocks, electrical equipment and other work necessary for completion. Certain materials and apparatus will be furnished on the ground by the Village and the plant and equipment now on the ground may be used without cost by the Contractor.

A certified check or cash to the amount of $2,000 is required with each proposal and a performance bond to the amount of $50,000 required for the faithful performance of the work.

Notice to Bidders, Forms of Proposal and Contract, Specifications and Plans may be examined at the office of Fuller & McClintock, 170 Broadway, New York, and James M. Duffy, Village Engineer, Mamaroneck, N. Y. They may be obtained at these offices upon a deposit of $20 of which $15 will be refunded upon the return of the plans and specifications in good condition.

Proposals from responsible and qualified Contractors only are requested and the Village reserves the right to reject any or all bids.

By order of the Board of Trustees,
Dated Mamaroneck, N. Y., March 2, 1923.
JOHN F. HUNTER, MD.,
President.
EDGAR L. HOWE,
Village Clerk.

Bids: March 12.

Bulkhead and Filling

Mineola, N. Y.

Sealed proposals will be received by the Board of Supervisors of Nassau County in its Chambers in the Court House at Mineola, New York, on

Monday, March 12, 1923, at 11 a.m., for the improvement of the Long Beach Road, between Barnum Island Creek and the Upland, by the construction of a bulk head and filling.

Plans and specifications may be seen at the office of the County Engineer at Mineola, Long Island.

Each bid must be accompanied by a certified check on a solvent bank in the sum of Three per cent of the amount of the total contract, made payable to the County of Nassau.

The Board of Supervisors reserves the right to reject any or all bids, waive any informality in the bids, and to accept the bid which it deems most favorable to the interest of the County.

By order of the Board of Supervisors,
JESSE MERRITT,
Clerk.

Dated at Mineola, Long Island,
Feb. 26, 1923.

Bids: Mar. 28.

Sheet Asphalt Paving Top

Kalamazoo, Mich.

Bids will be received until 5 p.m., Wednesday, March 28, 1923, on approximately 28,000 square yards of Sheet Asphalt Paving Top. Specifications furnished upon application. Bids must be accompanied by certified check of five (5%) per cent of the total sum bid. The City reserves the right to reject any or all bids or to award the business where it appears to be to the best advantage.

Call or address,
HAROLD A. BLAND,
City Purchasing Agent, Kalamazoo, Mich.

OFFICIAL PROPOSALS

Bids: Mar. 24.

Street Improvement

Charlottesville, Va.

Sealed proposals will be received by the City Manager of the City of Charlottesville, Va., until 12 o'clock, noon, on March 24, 1923, for Street Improvement; consisting of grading, curbing, paving and resurfacing.

Alternate proposals will be received for various types of surfaces. Estimated square yardage for this proposal 120,200. The City Manager reserves the right to increase or decrease this quantity.

Plans and specifications are on file in the office of the Engineer. Copies of the specifications and proposal blanks may be obtained from the City Manager.

Each proposal must be accompanied by a certified check for ten thousand dollars ($10,000) payable to the Treasurer of the City of Charlottesville, Va.; to be returned in case the proposal is rejected or to be forfeited in case the bidder should refuse to enter into a contract in accordance with his proposal and the specifications.

The right is reserved to reject any or all bids.

BOYD A. BENNETT,
City Manager.
Charlottesville, Va.

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Bids: Mar. 27.

Drainage Ditch and Structures

Lamar, Colo.

Sealed proposals will be received at the office of the Granada Drainage District, located at Room No. 3, Markham Building, Lamar, Colorado, until two o'clock p.m. of the 27th day of March, 1923, and a contract will be let to the lowest responsible bidder for the construction of any or all parts of the drainage system of the said Granada Drainage District, as follows:

(a)—Open drainage canal.
(b)—Bridges and other necessary structures.

This work involves the excavation of about 350,000 Cubic Yards, of material in open cut, and structures as follows:

Flumes—approximately	20
Road Bridges—approximately	9
Farm Bridges—approximately	10
State Highway Bridges	2
Drain Inlets—approximately	20
Flush Gates	2
Wolf Creek Inlet	2

Said sealed proposals will be opened in public at the hour of two o'clock p.m. on said 27th day of March, 1923, at said Room No. 3, Markham Building, Lamar, Colorado.

Plans and specifications may be seen at the office of the George H. Russell Engineering Company, Engineers for the District, Room No. 3, Markham Building, Lamar, Colorado.

For further particulars address the Granada Drainage District, Lamar, Colorado.

E. H. GERECKE,
Secretary of the Granada Drainage District, Lamar, Colorado.
Feb. 19, 1923.

OFFICIAL PROPOSALS

Bids: Mar. 22.

Madison Street Bridge

Eau Claire, Wis.

Sealed proposals will be received by the Wisconsin Highway Commission at the office of the Division Engineer, at 213 So. Barstow Street, Eau Claire, Wisconsin, until 2:00 o'clock p.m., Thursday, March 22nd, 1923, for furnishing materials an the performance of all construction work in connection with the following described bridge.

The bridge is known as the Madison Street Bridge over the Chippewa River, located on State Trunk Highway No. 12 in the city of Eau Claire, Eau Claire county. The bridge has a total over all length of about 700 feet, and is of the reinforced concrete arch type. The roadway is 36 feet with two 8-ft. sidewalks. There is one span 130 feet long; two spans each 120 feet long, and two spans each 115 feet long. Stream bed consists of sand and gravel. All substructure units are to be supported on timber piles.

An approximate estimate of the total quantities involved is as follows:

Concrete—Class "A," 6,149 cu.yds.; concrete—class "C," 4,408 cu.yds.; concrete balusters, 1,092; reinforcing steel, 670,050 lbs.; structural steel, 11,730 lbs.; wire mesh, 3,100 lbs.; pipe, ¾-in. diameter, 1-ft. long, 40 required; pipe ¾-in. diameter, 1-ft., 11-in. long, 20 required; pipe, 1¼-in. 0-in. long, 408 required; wood piles 18-ft. 0-in. long, 1,232 required; drains complete, diameter, 1,530 lin.ft.; wood piles, 24-ft. 12 required; fillers for expansion joints; concrete vases, 28 required; metal lamp standards, 12 required.

The last two items are to be furnished by the Wisconsin Highway Commission.

The above estimate of quantities is approximate and its accuracy is not guaranteed. Bidders should make their own estimate of quantities and costs and submit bids thereon after examining the plans, the specifications and the bridge site.

Cement is to be furnished to the contractor by the Wisconsin Highway Commission, f.o.b. Eau Claire.

Bids are to be a lump proposal, exclusive of cement, but are to include the cost of handling, etc., of the cement.

Plans and specifications for this work may be seen at the offices of the Wisconsin Highway Commission at 206 Stephenson Bldg., Milwaukee, Wisconsin, and at 213 So. Barstow St., Eau Claire, Wisconsin, and in the State Capitol Annex at Madison. They will also be on file with Mr. J. T. Hurd, City Engineer, at Eau Claire, and also with the County Clerk in the Court House at Eau Claire.

Bidders desiring copies of the plans and specifications for their own use, may secure them from the Wisconsin Blue Print Company, Madison, Wisconsin, at the cost of $5.50 a set. Plans will be mailed first class and there will be no refund for return of plans.

Each proposal must be accompanied by cash, a certified check, a liberty bond, or a bidder's bond for a sum equal to at least 5 per cent of the bid, made payable to the Treasurer of the State of Wisconsin as a guarantee that the successful bidder will enter into a contract with the State to furnish the material, bid on and perform all of the construction work necessary for the proper completion of this structure in accordance with the standard plans and specifications for such structure. Bidders should state prices in writing and in figures.

All bids will be publicly opened by an authorized representative of the Wisconsin Highway Commission. The Commission reserves the right to reject any or all proposals and to accept any bid which may be most advantageous to the State.

WISCONSIN HIGHWAY COMMISSION.
By W. C. Buetow, Bridge Engineer.

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A choice assortment of words pregnant with profit for you.
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Aetna stands for the highest quality of insurance and surety bonds.
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If you want to earn some extra money and are a resident in one of the cities named below;

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Then write me concerning your qualifications and present connection, if you live in

ARIZONA
Bisbee
Globe
Tuscon

ARKANSAS
Little Rock

CONNECTICUT
Hartford

DELAWARE
Wilmington

INDIANA
Evansville
South Bend

IOWA
Dubuque

KANSAS
Leavenworth

KENTUCKY
Louisville

MASSACHUSETTS
Fall River

NEVADA
Carson City

OHIO
Toledo
Youngstown

OREGON
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SOUTH DAKOTA
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WASHINGTON
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Quebec

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Engineering News-Record

(Circulation over 30,000 weekly)

prints more than twice as many announcements advertising contracts to be let than appear in any other one publication

Practically every form of public work and the furnishing of material and supplies wer printed in the Official Proposal Columns of *Engineering News-Record* last year. They include calls for bids on:

Boilers
Bridges
Building Alterations
Canal Construction
Cast Iron Pipe
Dams
Drainage
Dredging
Engines
Excavation
Filling
Filtration Plants
Generators
Heating and Ventilating
Highway Construction
Paving
Pumps
Pumping Plants
River and Harbor Improvements
Road Oil
Road Building Equipment
Schools and Public Buildings
Sewage Disposal Plants
Sewers
Street Improvements
Street Lighting Systems
Supplies and Material
Water Works
Well Drilling, Etc.

THIS wide use of *Engineering News-Record's* Official Proposal Columns and the rapidly growing recognition of this paper's value as an advertising medium is due to RESULTS—keen competition, lower bids, better work—and savings.

For more than 40 years contractors, manufacturers, and dealers everywhere have consulted the Official Proposal Columns of *Engineering News-Record* and its predecessors for opportunities for business. Today, many of those interested in bidding on contracts for work, material, and supplies depend entirely upon the advertisements that appear in this dominant paper and would be unlikely to see those printed elsewhere.

The Dominant Proposal Medium